

## Methodology – Provider Availability/Paid Claims

### I. Identification of beneficiaries with chronic diseases meeting geographic and demographic selection criteria.

1. **Geographic selection criteria.** Only beneficiaries who received inpatient or outpatient services while residing in Alameda County or in the 19 pilot program zip codes in Los Angeles County were selected. Those zip codes were 1) 90026, 2) 90027, 3) 90028, 4) 90029, 5) 90031, 6) 90032, 7) 90033, 8) 90034, 9) 90046, 10) 90201, 11) 90255, 12) 90280, 13) 91201, 14) 91205, 15) 91206, 16) 91331, 17) 91402, 18) 91605, and 19) 91606.
2. **Demographic selection Criteria:** Only beneficiaries meeting the following selection criteria were selected:
  - i. **Age Amount:** Only beneficiaries age 22 and older were selected.
  - ii. **Aid Code:** Only beneficiaries in the following 21 aid codes were selected

Aid Code	Aid Code Description
10	Aged-SSI/SSP-Cash
14	Aged-Medically Needy
16	Aged-Pickle Eligibility
17	Aged-Medically Needy-SOC
1E	Craig v Bonta - Aged
1H	Federal Poverty Level - Aged
20	Blind-SSI/SSP-Cash
24	Blind-Medically Needy
26	Blind-Pickle Eligibility
27	Blind-Medically Needy-SOC
2E	Craig v Bonta, Cont. Elig. for the Blind
36	Disabled-COBRA-Widow/ers
60	Disabled-SSI/SSP-Cash
64	Disabled-Medically Needy
66	Disabled-Pickle Eligibility
67	Disabled-Medically Needy-SOC
6E	Craig v Bonta- Cont. Elig. For the Disabled
6G	250% Working Disabled
6H	250% Working Disabled-Undocs
6N	No Longer Disabled Bene in Appeal (not 6R)
8G	SEVERELY IMPAIRED WORKING INDIVIDUAL

- iii. **Medicare status:** Only beneficiaries with no Medicare status (Medi-Cal benefits only) at the time they received services were selected.
  - iv. **Ethnicity:** Beneficiaries listed as Native-Americans were excluded.
3. **Date range:** Only beneficiaries who received inpatient or outpatient services during the 2004 calendar year were selected.
4. **Clinical Selection criteria.** Only beneficiaries who received inpatient or outpatient services having a primary or secondary diagnosis for one of the following were selected:

<b>DX</b>	<b>Disease</b>	<b>DX Description</b>
25000	Diabetes	DM II wo Cmp Nt St Uncntr
2500	Diabetes	Diabetes Mellitus, Type II
25001	Diabetes	DM I wo Cmp Nt St Uncntrl
25002	Diabetes	DM II wo Cmp Uncntrld
25003	Diabetes	DM I wo Cmp Uncntrld
2501	Diabetes	Diabetes with ketoacidosis
25010	Diabetes	DM II Keto Nt St Uncntrld
25011	Diabetes	DM I Keto Nt St Uncntrld
25012	Diabetes	DM II Ketoacd Uncontrold
25013	Diabetes	DM I Ketoacd Uncontrold
25020	Diabetes	DM II Hprsm Nt St Uncntrl
25021	Diabetes	DM I Hprsm Nt St Uncntrld
25022	Diabetes	DM II Hprosmrlr Uncontrold
25023	Diabetes	DM I Hprosmrlr Uncontrold
25030	Diabetes	DM II O Cm Nt St Uncntrld
25031	Diabetes	DM I O Cm Nt St Uncntrld
25042	Diabetes	DM II Renal Uncntrld
25041	Diabetes	DM I Renl Nt St Uncntrld
25040	Diabetes	DM II Renl Nt St Uncntrld
25033	Diabetes	DM I Oth Coma Uncontrold
25032	Diabetes	DM II Oth Coma Uncontrold
25072	Diabetes	DM II Circ Uncntrld
25071	Diabetes	DM I Circ Nt St Uncntrld
25043	Diabetes	DM I Renal Uncntrld
25050	Diabetes	DM II Ophth Nt St Uncntrl
25051	Diabetes	DM I Ophth Nt St Uncntrld
25070	Diabetes	DM II Circ Nt St Uncntrld
25052	Diabetes	DM II Ophth Uncntrld
25053	Diabetes	DM I Ophth Uncntrld
25060	Diabetes	DM II Neuro Nt St Uncntrl
25061	Diabetes	DM I Neuro Nt St Uncntrld
25062	Diabetes	DM II Neuro Uncntrld
25063	Diabetes	DM I Neuro Uncntrld
25093	Diabetes	DM I Unspf Uncntrld
25073	Diabetes	DM I Circ Uncntrld
25080	Diabetes	DM II Oth Nt St Uncntrld
25092	Diabetes	DM II Unspf Uncntrld
25081	Diabetes	DM I Oth Nt St Uncntrld
25091	Diabetes	DM I Unspf Nt St Uncntrld
25082	Diabetes	DM II Oth Uncntrld
25083	Diabetes	DM I Oth Uncntrld
25090	Diabetes	DM II Unspf Nt St Uncntrl
493	Asthma	Asthma
49300	Asthma	Ext Asthma w/o Stat Asth
49301	Asthma	Ext Asthma w Status Asth

<b>DX</b>	<b>Disease</b>	<b>DX Description</b>
49302	Asthma	Asthma - Extrinsic
49310	Asthma	Int Asthma w/o Stat Asth
49311	Asthma	Int Asthma w Status Asth
4932	Asthma	Chronic Obstructive Asthma
49320	Asthma	Ch Ob Asth w/o Stat Asth
49321	Asthma	Ch Ob Asthma w Stat Asth
49322	Asthma	Ch Ob Asthma w Stat Asth-Emerg
4910	COPD	Simple Chr Bronchitis
4911	COPD	Mucopurul Chr Bronchitis
49120	COPD	Obs Chr Brnc w/o Act Exa
49121	COPD	Obs Chr Brnc w Act Exa
4918	COPD	Chronic Bronchitis NEC
4919	COPD	Chronic Bronchitis NOS
4920	COPD	Emphysematous Bleb
4939	Asthma	Asthma, Unspecified
4928	COPD	Emphysema NEC
496	COPD	Chr Airway Obstruct NEC
49391	Asthma	Asthma w Status Asthmat
49392	Asthma	Asthma - Extrinsic Unspecified
41000	Coronary Artery Disease	Ami Anterolateral,unspec
41001	Coronary Artery Disease	Ami Anterolateral, Init
41002	Coronary Artery Disease	Ami Anterolateral,subseq
41010	Coronary Artery Disease	Ami Anterior Wall,unspec
41011	Coronary Artery Disease	Ami Anterior Wall, Init
41012	Coronary Artery Disease	Ami Anterior Wall,subseq
41020	Coronary Artery Disease	Ami Inferolateral,unspec
41021	Coronary Artery Disease	Ami Inferolateral, Init
41022	Coronary Artery Disease	Ami Inferolateral,subseq
41030	Coronary Artery Disease	Ami Inferopost, Unspec
41061	Coronary Artery Disease	True Post Infarct, Init
41031	Coronary Artery Disease	Ami Inferopost, Initial
41032	Coronary Artery Disease	Ami Inferopost, Subseq
41040	Coronary Artery Disease	Ami Inferior Wall,unspec
41041	Coronary Artery Disease	Ami Inferior Wall, Init
41042	Coronary Artery Disease	Ami Inferior Wall,subseq
41050	Coronary Artery Disease	Ami Lateral NEC, Unspec
41051	Coronary Artery Disease	Ami Lateral NEC, Initial
41052	Coronary Artery Disease	Ami Lateral NEC, Subseq
41060	Coronary Artery Disease	True Post Infarct,unspec
41062	Coronary Artery Disease	True Post Infarct,subseq
41070	Coronary Artery Disease	Subendo Infarct, Unspec
41071	Coronary Artery Disease	Subendo Infarct, Initial
41072	Coronary Artery Disease	Subendo Infarct, Subseq
41080	Coronary Artery Disease	Ami NEC, Unspecified
41081	Coronary Artery Disease	Ami NEC, Initial
41082	Coronary Artery Disease	Ami NEC, Subsequent
41090	Coronary Artery Disease	Ami NOS, Unspecified

<b>DX</b>	<b>Disease</b>	<b>DX Description</b>
41091	Coronary Artery Disease	Ami NOS, Initial
41092	Coronary Artery Disease	Ami NOS, Subsequent
4130	Coronary Artery Disease	Angina Decubitus
4131	Coronary Artery Disease	Prinzmetal Angina
4139	Coronary Artery Disease	Angina Pectoris NEC/NOS
4280	Congestive Heart Failure	Congestive Heart Failure
4281	Congestive Heart Failure	Left Heart Failure
4289	Congestive Heart Failure	Heart Failure NOS
41400	Atherosclerosis	Cor Ath Unsp Vsl Ntv/gft
41401	Atherosclerosis	Crnry Athrscl Natve Vssl
41402	Atherosclerosis	Crn Ath Atlg Vn Bps Grft
41403	Atherosclerosis	Crn Ath Nonatlg Blg Grft
41404	Atherosclerosis	Cor Ath Artry Bypas Grft
41405	Atherosclerosis	Cor Ath Bypass Graft NOS
4141	Atherosclerosis	Anuerysm of the Heart
41410	Atherosclerosis	Aneurysm, Heart (wall)
41411	Atherosclerosis	Coronary Vessel Aneurysm
41419	Atherosclerosis	Aneurysm of Heart NEC
4148	Atherosclerosis	Chr Ischemic Hrt Dis NEC
4149	Atherosclerosis	Chr Ischemic Hrt Dis NOS
440	Atherosclerosis	Artherosclerosis
4400	Atherosclerosis	Aortic Atherosclerosis
4401	Atherosclerosis	Renal Artery Atheroscler
4402	Atherosclerosis	Artherosclerosis of native arteriees of the extremities
44020	Atherosclerosis	Athscl Extrm Ntv Art NOS
44021	Atherosclerosis	Ath Ext Ntv At w Claudct
44022	Atherosclerosis	Ath Ext Ntv At w Rst Pn
44023	Atherosclerosis	Ath Ext Ntv Art Ulcrtion
44024	Atherosclerosis	Ath Ext Ntv Art Gngrene
44029	Atherosclerosis	Athrc Extrm Ntv Art Oth
4403	Atherosclerosis	Artherosclerosis of bypass graft of the extremities
44030	Atherosclerosis	Athscl Extrm Bps Gft NOS
44031	Atherosclerosis	Ath Ext Autologs Bps Gft
44032	Atherosclerosis	Ath Ext Nonautlg Bps Gft
4408	Atherosclerosis	Atherosclerosis NEC
4409	Atherosclerosis	Atherosclerosis NOS
441	Atherosclerosis	Aortic Aneurysm and dissection
4410	Atherosclerosis	Dissecting Aneurysm
44100	Atherosclerosis	Dsct of Aorta Unsp Site
44101	Atherosclerosis	Dsct of Thoracic Aorta
44102	Atherosclerosis	Dsct of Abdominal Aorta
44103	Atherosclerosis	Dsct of Thoracoabd Aorta
4411	Atherosclerosis	Ruptur Thoracic Aneurysm
4412	Atherosclerosis	Thoracic Aortic Aneurysm
4413	Atherosclerosis	Rupt Abd Aortic Aneurysm
4414	Atherosclerosis	Abdom Aortic Aneurysm

<b>DX</b>	<b>Disease</b>	<b>DX Description</b>
4415	Atherosclerosis	Rupt Aortic Aneurysm NOS
4416	Atherosclerosis	Thoracoabd Aneurysm Rupt
4417	Atherosclerosis	Thracabd Anurysm wo Rupt
4419	Atherosclerosis	Aortic Aneurysm NOS

**II. Capture of all claims data for beneficiaries with chronic disease.**

1. A file was created containing one record for each unique beneficiary identification number for all the beneficiaries meeting the criteria in either the inpatient or outpatient table.
2. The file was linked to the Inpatient, Outpatient and Prescription drug tables and all claims for beneficiaries listed in the file were extracted that met the following criteria:
  - i. Plan Model Type = Fee for Service.
  - ii. Medicare Cross Over Code **Not Equal** to Medicare Part A, Medicare Part B or Medicare Part A and B.
  - iii. Service Date Year = 2004.

**III. Assignment of beneficiaries to one principal diagnosis group.**

Some beneficiaries were identified with diagnoses from **more than one** chronic disease. In such instances, to avoid overstating the number of beneficiaries and their total costs by reporting them under multiple chronic disease headings, each beneficiary was assigned to one principal chronic disease group for reporting purposes.

1. First, claims with a primary or secondary diagnosis for one of the six chronic diseases were summarized by beneficiary and chronic disease group.
2. Next, a second summary identified the chronic disease for which each beneficiary had the greatest amount of total net payments. This became the chronic disease to which each beneficiary was assigned
3. Next, every claim record for each beneficiary was “tagged” with the principal chronic disease diagnosis group to which that beneficiary was assigned in step 2 regardless of the actual diagnoses in the specific claim record.
4. Lastly all claims were summarized and reported under the principal chronic disease diagnosis group, tagged to the claim record in step 2. For example, a beneficiary with \$1,000 in total net payments for treatment of Coronary Artery Disease and \$500 in total net payments for treatment of Diabetes will be reported under Coronary Artery Disease with \$1,500 in total costs.

**IV. Beneficiaries with HIV diagnosis excluded.** Per instructions provided by the DHS, beneficiaries with any claim having a primary or secondary diagnosis of HIV, for a service received during 2004 were excluded, since HIV positive beneficiaries are not to be included in the Disease management pilot program.

## **V. Provider Summaries**

1. Only providers who **actually treated a beneficiary having a diagnosis for one of the six chronic diseases** (and meeting the other demographic selection criteria) were summarized. This includes not only those providers who treated the beneficiaries specifically for one of the six chronic diseases, but other providers who treated beneficiaries with a chronic disease for unrelated conditions.
2. Only providers with a **service location in Alameda or Los Angeles County** were summarized. Although beneficiaries from Alameda and Los Angeles counties identified with a chronic disease may have obtained services out of county, the out-of –county providers they may have seen were not summarized and reported.